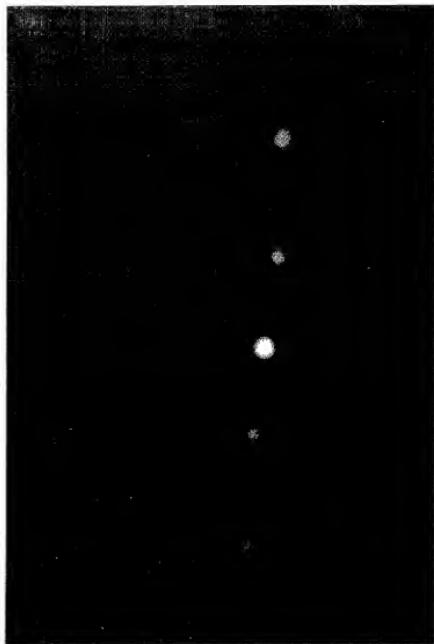


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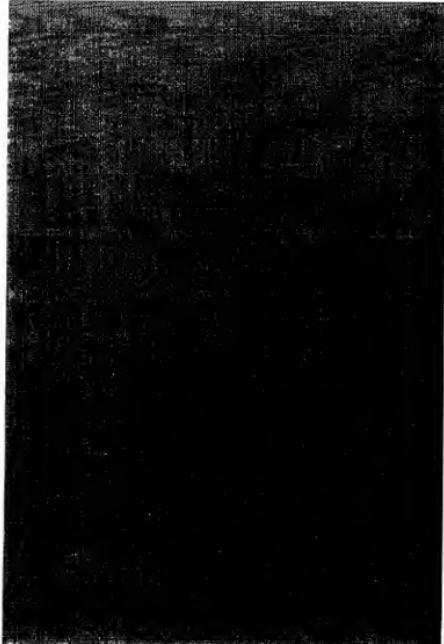
Black = Unlabeled Nucleotide
Red = Fluorescent Nucleotide



Sample 2: **3'** **P'** **5'** **P**

1

CYCLE
ADDED: 1 2 3 4 5 6 7 8



1

2

Sample 1: 3' P A G C T G T ... 5'
5' P T C G

Sample 2: 3' P G T C T A T ... 5'
5' P C A G

FIG. 2

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CYCLE 1 2 3 4 5 6 7 8 9 10
 ADDED: A C G T A C G T A C



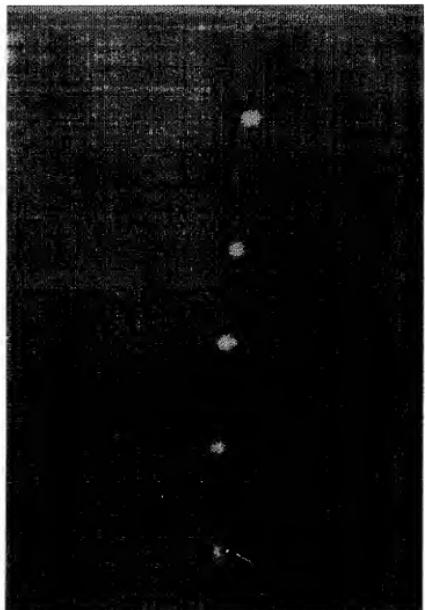
1

2

Sample 1:	3'	<table border="1"> <tr><td>P</td></tr> </table>	P	A	G	C	T	G	T	...
P										
	5'	<table border="1"> <tr><td>P</td></tr> </table>	P	T	C	G	A	C		
P										
Sample 2:	3'	<table border="1"> <tr><td>P</td></tr> </table>	P	G	T	C	T	A	T	...
P										
	5'	<table border="1"> <tr><td>P</td></tr> </table>	P	C	A	G	A			
P										

FIG. 3

CYCLE
ADDED:
1 A 2 C 3 G 4 T 5 A 6 C 7 G 8 T 9 A 10 C 11 G 12 T



Sample 1:

3'	P	A	G	C	T	G	T	...
5'	P	T	C	G	A	C		

Sample 2:

3'	P	G	T	C	T	A	T	...
5'	P	C	A	G	A	T		

FIG. 4

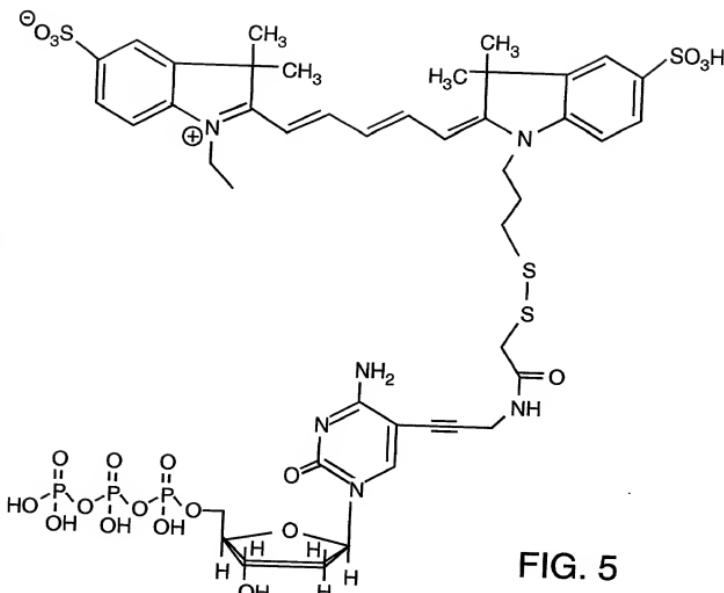
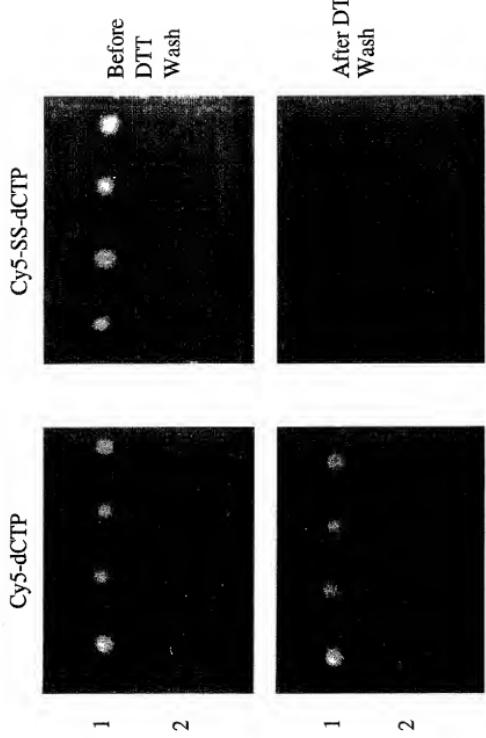


FIG. 5

$C_{44}H_{55}N_6O_{20}P_3S_4$
 1209.11



Sample 1:
 3' P G T C T A T ... 5'
 5' P C

Sample 2:
 3' P A G C T G T ... 5'
 5' P

FIG. 6

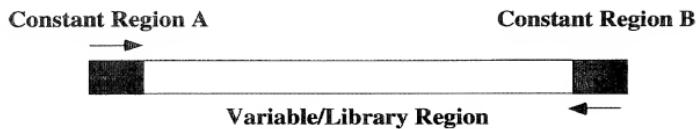


FIG. 7

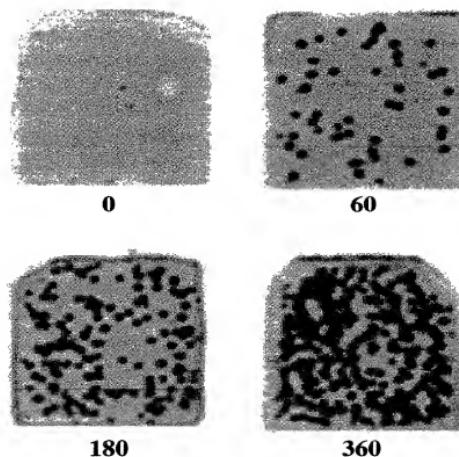


FIG. 8A

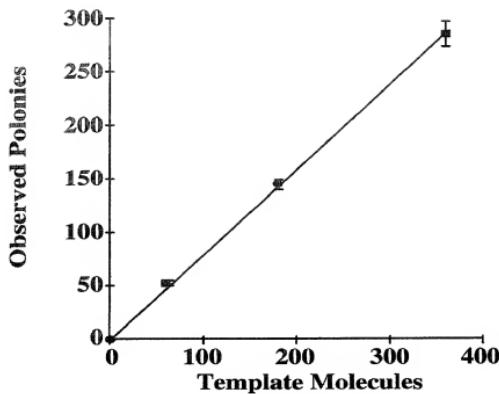


FIG. 8B

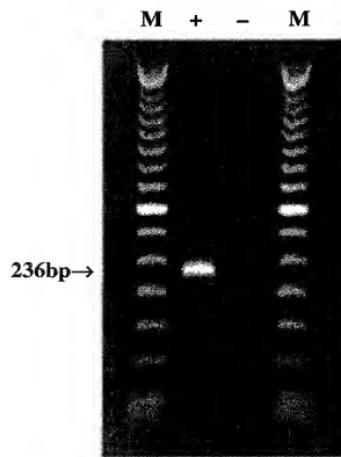


FIG. 8C

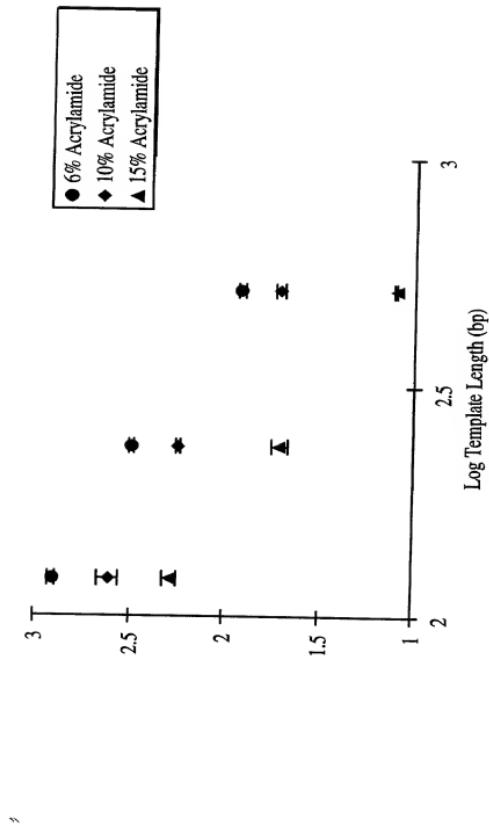


FIG. 9A

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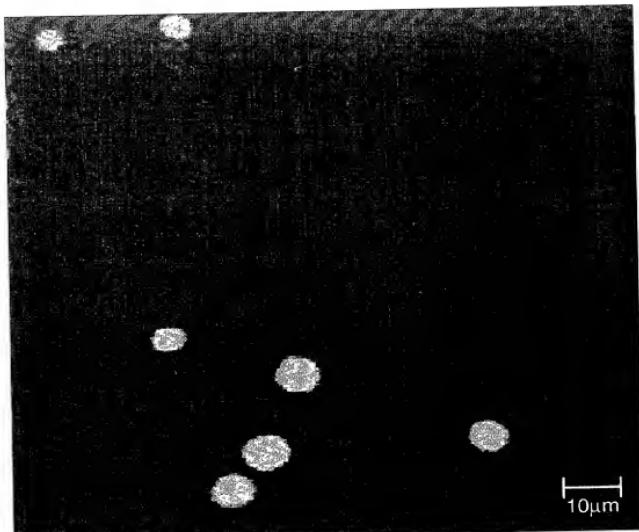


FIG. 9B

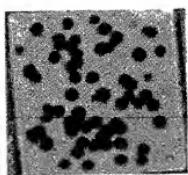


FIG. 10A

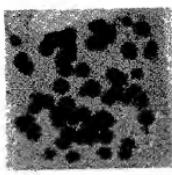


FIG. 10B

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